This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



STIC Search Report

STIC Database Tracking Number: 131526

TO: Mohammad Ali

Location:

Art Unit: 2177

Wednesday, September 01, 2004

Case Serial Number: 10/040192

From: David Holloway Location: EIC 2100

PK2-4B30

Phone: 308-7794

david.holloway@uspto.gov

Search Notes

-		T	•	A 1 *
1	Par	Exan	Iner	Δ I 1
ப	vai	Laan	IIIICI	/ XII.

Attached please find your search results for above-referenced case. Please contact me if you have any questions or would like a re-focused search.

David





STIC EIC 2100 Search Request Form

	iority Date: 18127 100 0 Other:	
Name	Whore have you searched so far?	
Is this a "Fast & Focused" Search Request? A "Fast & Focused" Search is completed in 2-3 hour meet certain criteria. The criteria are posted in EIC2 http://ptoweb/patents/stic/stic-tc2100.htm.	s (maximum). The search must be on a very specific topic and	
include the concepts, synonyms, keywords, acronyr	r specific details defining the desired focus of this search? Please ns, definitions, strategies, and anything else that helps to describe kground, brief summary, pertinent claims and any citations of	
the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found. Fil. 3th velture 8trag ming 3 mrs e Capable to transmil data ancek by by reducing was to of a network bandati'dth by most in eluciary unmers any to be in file trans mission el in familiary an afolicit in all survive by in eluciary a reserval tikeld in a file. **SIN chro my to another melia data" "descriptor interes tron" "trustemp fold" and the k **The book of factors of factors of the factors of		
Date picked up 9 - 1 - 0 y Date C	ompleted 9-2-04	

•		
Set	Items	Description
S1	392992	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC?
		OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB()(BROADCAST OR -
	C	AST) OR MBONE? OR M()BONE
S2	551386	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR
	М	PEG? OR REALAUDIO? OR REALVIDEO? OR REAL()(AUDIO? OR VIDEO?)
		R ASF OR REAL()MEDIA
s3	43370	HEADER? OR FILE()(STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	118002	BANDWIDTH? OR TRAFFIC? OR CONGEST? OR LOAD()BALANC?
S5	277	(S1 OR S2) AND S3 AND S4
S6	1336292	
	D	UCED OR UNNECESSAR? OR "NOT"()NECESSAR?
s7	26	S5 AND S6
S8	2	S7 AND IC=G06F?
S9	. 1	
S10	20	S7 NOT AD>20011024
S11	20	
S12	20	
S13	20	IDPAT (primary/non-duplicate records only)
File		Nov 1976-2004/Apr(Updated 040802)
		004 JPO & JAPIO
File		nt WPIX 1963-2004/UD,UM &UP=200456
	(c) 2	004 Thomson Derwent

13/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015030611 **Image available**
WPI Acc No: 2003-091128/200308

XRPX Acc No: N03-072073

WDM multicasting system for next generation Internet application, adds header containing multicast information of local routes through nodes, to data payload at wavelength similar to that of payload

Patent Assignee: CHANG G (CHAN-I); CHOWDHURY A M (CHOW-I); ELLINAS G

(ELLI-I); UNIV CALIFORNIA (REGC)

Inventor: CHANG G; CHOWDHURY A M; ELLINAS G

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20020141015 A1 20021003 US 2001774289 A 20010130 200308 B
US 6757497 B2 20040629 US 2001774289 A 20010130 200443

Priority Applications (No Type Date): US 2001774289 A 20010130 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020141015 A1 72 H04J-004/00 US 6757497 B2 H04J-014/00 Abstract (Basic): US 20020141015 A1

NOVELTY - An adder adds a **header** containing **multicast** information indicative of local routes through nodes, to a data payload at a wavelength similar to that of the payload. A detector detects the **multicast** information at the nodes to determine switch control signals for the nodes based on which a selector selects local routes through the nodes.

USE - For multicasting data payload through various nodes of WDM system for next generation internet (NGI) application.

ADVANTAGE - Efficiently directs data payload from source to several destinations by providing suitable multicast information header to the payload at the payload wavelength band, hence required bandwidth and communication cost are reduced and network survivability is increased.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining data payload $\mbox{multicasting}$ in optical network.

pp; 72 DwgNo 16/40

Title Terms: WDM; SYSTEM; GENERATE; APPLY; ADD; HEADER; CONTAIN; INFORMATION; LOCAL; ROU

13/5/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011129805 **Image available**
WPI Acc No: 1997-107729/199710

XRPX Acc No: N97-089141

Video data bitstream decoding system - using macroblocks of data including input Motion Compensation data and input Transform Coded data

Patent Assignee: LSI LOGIC CORP (LSIL-N)

Inventor: CHAU K K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 5596369 A 19970121 US 95377160 A 19950124 199710 B

Priority Applications (No Type Date): US 95377160 A 19950124

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5596369 A 14 H04N-007/50

Abstract (Basic): US 5596369 A

The system has a motion pipeline for processing an input (M) data to produce a processed M data. A transform pipeline processes an input (I) data to produce a processed I data. There is a controller which manages the transform pipeline and the motion picture pipeline, respectively, to process the input I data and the input M data concurrently.

The length of time required for processing each macroblock is variable, and is determined by the largest of a time length required for the motion pipeline to process the input M data and a time length for the transform pipeline to process the input I data of the macroblock. Each macroblock may comprise a **header**, and there may be a data memory for storing the processed M and I data.

USE/ADVANTAGE - For audio / video data compression and transmission, esp. for statistically derived decoding MPEG compensation and transform coded video data. Improved bandwidth utilisation with lower instantaneous peak bandwidth. Lower memory cost. Reduced power consumption.

Dwg.5/10

Title Terms: VIDEO; DATA; BITSTREAM; DECODE; SYSTEM; DATA; INPUT; MOTION; COMPENSATE; DATA; INPUT; TRANSFORM; CODE; DATA

Index Terms/Additional Words: MPEG

Derwent Class: W02; W03; W04

International Patent Class (Main): H04N-007/50

; j		
Set	Items	Description
S1	333602	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC?
	C	OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR -
	CF	AST) OR MBONE? OR M()BONE
S2	160683	
		PEG? OR REALAUDIO? OR REALVIDEO? OR REAL()(AUDIO? OR VIDEO?)
		R ASF OR REAL()MEDIA
S3	43397	HEADER? OR FILE()(STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S4	9700	DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA)()TYPE?
S5		SYNC OR SYNCS OR SYNCHRONI?
S6		DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
s7	16728	,
		O) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR
		CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET-
		NFO?
S8	94078	,,
S9	16033	
S10	752	S9 (10N) S3
S11	16	
S12	3	S11(10N)(S4 OR S6 OR S7 OR S8)
S13	155	, , ,
S14	0	(S12 OR S13) AND IC=G06F-007?
S15	30	(S12 OR S13) AND IC=(G06F? OR G09G? OR H04L?)
S16	46	S11 OR S15
S17	22	S16 NOT AD>20001024
S18	22	IDPAT (sorted in duplicate/non-duplicate order)
S19	22	IDPAT (primary/non-duplicate records only)
File		EAN PATENTS 1978-2004/Aug W04
E41-		004 European Patent Office
rire		JLLTEXT 1979-2002/UB=20040826,UT=20040819
	(0) 20	204 MILOLOUITAGUETO

```
19/3,K/2
              (Item 2 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01267610
Method and apparatus for dynamic targeting of streaming media using
    statistical data
Verfahren und Apparat zum dynamischen Zielrichten von Medienstromen mit
    Hilfe von statistischen Daten
Methode et appareil pour le ciblage dynamique de medias a flux continu en
   utilisant des donnees statistique
PATENT ASSIGNEE:
  International Business Machines Corporation, (200128), New Orchard Road,
   Armonk, NY 10504, (US), (Applicant designated States: all)
INVENTOR:
  Bassett, Ronald W., c/o IBM United Kingdom Ltd., Intell. Prop. Law,
   Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Beadle, Bruce A., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley
    Park, Winchester, Hampshire SO21 2JN, (GB)
  Brown, Michael Wayne, c/o IBM United Kingdom Ltd., Intell. Prop. Law,
   Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Doud, Leon P., c/o IBM United Kingdom Ltd., Intell. Prop. Law, Hursley
    Park, Winchester, Hampshire SO21 2JN, (GB)
  Paolini, Michael A., c/o IBM United Kingdom Ltd., Intell. Prop. Law,
    Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
LEGAL REPRESENTATIVE:
  Waldner, Philip (84391), IBM United Kingdom Limited, Intellectual
    Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 1093070 A2 010418 (Basic)
                              EP 1093070 A3
                                             030319
                              EP 2000308511 000928;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): US 409601 990930
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/60
ABSTRACT WORD COUNT: 93
NOTE:
  Figure number on first page: 15
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
                                     Word Count
Available Text Language
                           Update
```

Available Text Language Update Word Count
CLAIMS A (English) 200116 536
SPEC A (English) 200116 8826
Total word count - document A 9362
Total word count - document B 0
Total word count - documents A + B 9362

INTERNATIONAL PATENT CLASS: G06F-017/60

... SPECIFICATION 706 for presenting audio information.

In Figure 7C, a header 716 is an example of header information found in a video packet used in a video stream. In this example, header 716 includes an ID field 718, a time stamp field 720, and a CRC field 722. ID field 718 is used to identify the type of data contained within the packet, while time stamp 720 in this example is used for synchronization purposes. CRC field 722 may be used...

```
19/3,K/3
              (Item 3 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01262369
Method and apparatus for dynamic distribution of controlled and additional
    selective overlays in a streaming media
Verfahren und Apparat zum dynamischen Verteilen von kontrollierten und
    zusatzlich ausgewahlten Uberlagerungsdaten in einem Medienstrom
Methode et appareil de repartition dynamique de donnees superposees
    controlees et selectionnees additionnellement dans des medias a flux
    continu
PATENT ASSIGNEE:
  International Business Machines Corporation, (200128), New Orchard Road,
    Armonk, NY 10504, (US), (Applicant designated States: all)
INVENTOR:
  Bassett, Ronald W., c/o IBM United Kingdom Ltd., Intellectual Property
    Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Beadle, Bruce A., c/o IBM United Kingdom Ltd., Intellectual Property Law,
    Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Brown, Michael Wayne, c/o IBM United Kingdom Ltd., Intellectual Property
    Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Doud, Leon P., c/o IBM United Kingdom Ltd., Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
  Paolini, Michael A., c/o IBM United Kingdom Ltd., Intellectual Property
    Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
LEGAL REPRESENTATIVE:
  Waldner, Philip (84391), IBM United Kingdom Limited, Intellectual
    Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 1089207 A2 010404 (Basic)
                              EP 1089207 A3 030402
APPLICATION (CC, No, Date):
                              EP 2000308512 000928;
PRIORITY (CC, No, Date): US 409593 990930
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
  LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/60; G06F-017/30
ABSTRACT WORD COUNT: 62
NOTE:
  Figure number on first page: 13
LANGUAGE (Publication, Procedural, Application): English; English; English
```

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 200114 757 SPEC A (English) 200114 8526 Total word count - document A 9283 Total word count - document B 0 Total word count - documents A + B 9283

INTERNATIONAL PATENT CLASS: GO6F-017/60 ...

... G06F-017/30

 \dots SPECIFICATION 706 for presenting audio information.

In Figure 7C, a header 716 is an example of header information found stream . In this example, header in a video packet used in a video 716 includes an ID field 718, a time stamp field 720, and a CRC field 722. ID field 718 is used to identify the type of data contained within the packet, while time stamp 720 in this example is used for synchronization purposes. CRC field 722 may be used...

... synchronization points between the two data streams.

Next, in Figure 7D, another example of a header used for data packets stream is illustrated. Header 724 includes an ID field in a **video** 726, a type field 728, a location field 730, a...

...field 734. ID field 726 is used to identify the data packet as

containing video $\,$ data . Type $\,$ field 728 in this example may be used to identify the type of video, such...

```
19/3,K/9
              (Item 9 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00787019
Method and apparatus for decoding of digital audio data coded in layer 1 or
    2 of MPEG format
Verfahren und Vorrichtung zur Dekodierung digitaler, im MPEG-Format Layer 1
    oder 2 kodierter Audiodaten
Methode et appareil pour decoder des donnees audio numeriques codees selon
    le format MPEG de niveau 1 ou 2
PATENT ASSIGNEE:
  SICAN, GESELLSCHAFT FUR SILIZIUM-ANWENDUNGEN UND CAD/CAT NIEDERSACHSEN
    mbH, (1902800), Garbsener Landstrasse 10, D-30419 Hannover, (DE),
    (applicant designated states:
    AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE)
INVENTOR:
  Gao, Fei, Heisenstrasse 3, 30167 Hannover, (DE)
  Oberthur, Thomas, Engerode 32, 30880 Laatzen, (DE)
  Tilmann, Mathias, Osterwalder Wende 21, 30419 Hannover, (DE)
LEGAL REPRESENTATIVE:
  Gerstein, Hans Joachim Patent- & Rechtsanwalte, Steuerberater et al
    (88701), Wilhelm-Busch-Strasse 2, 30167 Hannover, (DE)
PATENT (CC, No, Kind, Date): EP 734021 A2 960925 (Basic)
                              EP 734021 A3 990526
                              EP 96104308 960319;
APPLICATION (CC, No, Date):
PRIORITY (CC, No, Date): DE 19510226 950323; DE 19515612 950428
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
  MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: G11B-020/10;
ABSTRACT WORD COUNT: 197
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language
                           Update
                                      Word Count
                           EPAB96
      CLAIMS A (English)
                                        822
                (English) EPAB96
                                       4820
      SPEC A
Total word count - document A
                                       5642
Total word count - document B
                                          0
Total word count - documents A + B
                                       5642
```

- ...CLAIMS digital audio data coded in layer 1 or 2 of MPEG format, comprising the processes:
 - Synchronisation of frames of a stream of said audio data comprising a synchronization data word, a header, a page information, quantizised subband samples and optional additionally informations;
 - Decoding of said header;
 - Reading...
- ...digital audio data coded in layer 1 or 2 of MPEG format, comprising the processes:
 - Synchronisation of frames of a stream of said audio data comprising a synchronization data word, a header, a page information, quantizised subband samples and optional additionally informations;
 - Decoding of said header;
 - Reading...

(Item 20 from file: 349) 19/3,K/20 DIALOG(R) File 349: PCT FULLTEXT (c) 2004 WIPO/Univentio. All rts. reserv. 00449427 **Image available** ACTIVE STREAM FORMAT FOR HOLDING MULTIPLE MEDIA STREAMS FORMAT DE FLUX DE DONNEES ACTIF PERMETTANT D'ENTRETENIR DES FLUX DE SUPPORTS MULTIPLES Patent Applicant/Assignee: MICROSOFT CORPORATION, Inventor(s): LEVI Steven P, VANANTWERP Mark D, DOWELL Craig M, KNOWLTON Chadd B, Patent and Priority Information (Country, Number, Date): WO 9839891 A1 19980911 Patent: (PCT/WO US9804459) WO 98US4459 19980306 Application: Priority Application: US 97813151 19970307 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Publication Language: English Fulltext Word Count: 8465

Main International Patent Class: H04L-029/06 Fulltext Availability:
Detailed Description

Detailed Description

... to fill in the contents of the ASF stream in accordance with this format.

The ASF stream 16 is divisible into a header section 28, a data section 30 and an index section 49. In general, the header section is first transmitted from the source computer 10...

...computer 10 to the destination computer 12 on a packet-by-packet basis and the index section 49 is transmitted. The header section 28 includes a number of objects that describe the ASF stream 16 in aggregate. The header section 28 includes a header -Object 32 that identifies the beginning of the ASF header section 28 and specifies the ...The inclusion of this field 76 helps to identify the requirements necessary to play the ASF stream 16.

The **header** section 28 (Figure 3) must also include at least one stream Droverties object 36. The...

...the ASF stream 16. For example, one of the stream properties-objects 36 in the **header** section 28 may be associated with an **audio stream**, while another such object is associated with a video stream. Figure 7 depicts a format in bytes. A stream-type field 90 holds a value that identifies the **media type** of the associated stream.

The stream properties-object 36 holds at least three fields 92...

19/3,K/21 (Item 21 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00389801 **Image available**
METHOD AND APPARATUS FOR TRANSITIONS, REVERSE PLAY AND OTHER SPECIAL EFFECTS IN DIGITAL MOTION VIDEO
PROCEDE ET DISPOSITIF POUR FONDU ENCHAINE, DEFILEMENT INVERSE ET AUTRES

EFFETS SPECIAUX APPLIQUES A L'IMAGE ANIMEE VIDEO NUMERIQUE Patent Applicant/Assignee:

SAS INSTITUTE INC,

Inventor(s):

TOEBES John A VIII, WALKER Douglas J,

Patent and Priority Information (Country, Number, Date):

Patent:

WO 9730544 A2 19970821

Application: WO 97US2953 19970220 (PCT/WO US9702953)
Priority Application: US 9614716 19960220; US 9616975 19960506; US 97801254 19970219; US 97802870 19970219

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English Fulltext Word Count: 21756

International Patent Class: G06F-13:00

Fulltext Availability:
Detailed Description
Claims

Detailed Description

... an MPEG video stream in reverse display order beginning at any selected frame within the video stream.

In the preferred embodiment. the GOP and Sequence header portions of the MPEG video stream are ignored and the MPEG player is set to use the default setting for all...3
SUBS I I I UTE SHEET (RULE 26)

P or B picture. If the MPEG video stream beinu decoded uses the GOP headers or sequence headers within the stream to alter the MPEG player's state. the index should also contain flags indicatinp, whether the picture is the last picture in a GOP...

...where these are important in placing the player in the appropriate state. While such an **index** can be created during runtime. for greater efficiency such **index** is preferably created for each MPEG stream which will be present in a product incorporating...

...Such pre-constructed indices are loaded into buffer when 1 0 appropriate during runtime. The index may be stored ...GOP and sequence headers will be required at which points in the bitstream, if the MPEG stream is using these headers to convey state information to the player.

The second step is to place the player...

Claim

20. A computer-based system for initiating playback of a video from a digitally compressed MPEG video stream which stream contains reference frames. dependent frames. GOP headers and sequence headers beginning at an arbitrarily selected frame within said video stream comprising:

a. means for determining the location of the target frame,

b. means for determining...

- ...of the target frame. and said rneans for identifying reference frames comprise a pre-constructed index .
 - 22 A computer-based system according to claim 21. wherein said pre-constructed index is...the video stream. A system for initiating

playback of a video from a digitally compressed MPEG video stream. which stream contains reference frames. dependent frames. GOP headers and 2 0 sequence headers, beginning at an arbitrarily selected frame within said video stream comprising:

a. a computer:

- b. said computer being programmed to determine the location of the... ... the reference frames to which the target frame directly and Indirectly refers using a preconstructed **index**.
 - 25 A computer-readable medium according to claim 24, wherein said pre-constructed index is...

Set	Items	Description
S1	392728	STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC?
	(OR ON(N) FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR -
	C	AST) OR MBONE? OR M()BONE
S2	551067	MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING()PICTUR? OR MPG OR
	M	PEG? OR REALAUDIO? OR REALVIDEO? OR REAL()(AUDIO? OR VIDEO?)
	O!	R ASF OR REAL()MEDIA
S3	43341	HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
\$4	2626	
S5	237932	SYNC OR SYNCS OR SYNCHRONI?
S6	196059	DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S7	14918	(BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? ? OR FILE? OR AUD-
	I	O) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?) OR
		CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET-
		NFO?
S8	52217	TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S9	7987	
S10	391	S9 AND S3
S11	54	
S12	16	
S13	60	
S14	3	(S12 OR S13) AND IC=G06F-007
S15	10	
S16	24	
S17	24	
S18	23	IDPAT (primary/non-duplicate records only)
File		Nov 1976-2004/Apr(Updated 040802)
	(c) 2	004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD, UM &UP=200455		
	(c) 2	004 Thomson Derwent

```
(Item 4 from file: 350)
18/5/4
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
            **Image available**
015781915
WPI Acc No: 2003-844118/200378
XRPX Acc No: N03-674602
  Real-time transport packet restoring apparatus for MPEG
  transmission, generates header corresponding to synchronization layer
  packet, based on packet number, composition and decoding time
  assigned to packet
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU )
Inventor: KANG S; LOBO A; KANG S U
Number of Countries: 034 Number of Patents: 004
Patent Family:
                                                  Date
                                           Kind
Patent No
             Kind
                    Date
                            Applicat No
                                                 20030331
US 20030185245 A1
                   20031002 US 2003401752
                                            Α
                  20031008 EP 2003251930
                                                20030327
                                                          200378
                                            Α
              A2
EP 1351472
                   20031024 JP 200398388
                                                 20030401
                                                          200378
                                            Α
JP 2003304288
              Α
KR 2003079069 A
                   20031010 KR 200217833
                                                20020401 200412
                                            Α
Priority Applications (No Type Date): KR 200217833 A 20020401
Patent Details:
Patent No Kind Lan Pg
                       Main IPC
                                     Filing Notes
US 20030185245 A1 16 H04J-003/06
EP 1351472
                      H04L-029/06
             A2 E
   Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
   GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
                  12 H04L-012/56
JP 2003304288 A
                       H04L-012/56
KR 2003079069 A
Abstract (Basic): US 20030185245 A1
        NOVELTY - A setting unit sequentially assigns a composition time
    stamp (CTS), decoding time stamp (DTS), packet sequence number
    (PSN) to a synchronization layer (SL) packet. The time
    length, packet sequence number are extracted from SL configuration
    description within the packet. A generator generates a header
    corresponding to the packet, based on assigned CTS, DTS, PSN and
    extraction result.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following
        (1) real-time transmission protocol packet restoration method;
        (2) real-time transmission protocol packet generation method;
        (3) computer-readable medium storing real-time transmission
    protocol packet generation program; and
        (4) real-time transmission protocol packet restoration program.
        USE - For restoring real-time transport protocol (RTP) packet for
    MPEG -4 stream transmission.
        ADVANTAGE - Enables simplifying the encoding procedure at
    transmission side and decoding procedure at reception side effectively.
        DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining
    the real-time transport protocol packet generation process.
        pp; 16 DwgNo 6/8
Title Terms: REAL; TIME; TRANSPORT; PACKET; RESTORATION; APPARATUS; STREAM;
  TRANSMISSION; GENERATE; HEADER; CORRESPOND; SYNCHRONISATION; LAYER;
  PACKET; BASED; PACKET; NUMBER; COMPOSITION; DECODE; TIME; STAMP; ASSIGN;
  PACKET
```

International Patent Class (Main): H04J-003/06; H04L-012/56; H04L-029/06

International Patent Class (Additional): H04N-007/24

Derwent Class: T01; W01; W02

18/5/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014928525 **Image available**
WPI Acc No: 2002-749234/200281

XRPX Acc No: N02-589949

Data management method in data processing system e.g. personal digital assistant, involves storing data elements which are session initiation protocol headers in data structure using index information

Patent Assignee: NORTEL NETWORKS LTD (NELE)

Inventor: ORTON S L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 6438555 B1 20020820 US 99431994 A 19991102 200281 B

Priority Applications (No Type Date): US 99431994 A 19991102

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6438555 B1 18 G06F-017/30

Abstract (Basic): US 6438555 B1

NOVELTY - A data packet having different types of data element is received. The data elements which are session initiation protocol headers, are stored in a data structure using index information. Each data structure stores index information for data elements of same type.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the

following:

(1) Received data management method;

(2) Data processing system;

(3) Computer program product storing program code for data processing program; and

(4) Data processing method.

USE - For managing data in data processing system (claimed) such as personal-digital assistant (PDA) and set-top device used in homes. Also used for processing data stream for e.g. MPEG data stream containing audio and video. Also used to locate packets of particular type such as video packets, for processing and presentation.

ADVANTAGE - Reduces amount of resources needed to locate information. The data elements are identified or grouped by data type using vector or other data structure to store the location of the data for a particular type, thus the data of one type can be quickly located when that data is to be decompressed.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the steps of recalculation of new header index table based on existing vector of message headers.

pp; 18 DwgNo 8/12

Title Terms: DATA; MANAGEMENT; METHOD; DATA; PROCESS; SYSTEM; PERSON; DIGITAL; ASSIST; STORAGE; DATA; ELEMENT; SESSION; INITIATE; PROTOCOL;

HEADER; DATA; STRUCTURE; INDEX; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-017/30

18/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014697840 **Image available** WPI Acc No: 2002-518544/200255

XRPX Acc No: N02-410430

Streaming service providing apparatus for Internet broadcast, has key index object which stores offset and temporal information of video block having key frame in video blocks, based on time axis for random access and reproduction

Patent Assignee: LG ELECTRONICS INC (GLDS)

Inventor: LEE G U; LEE S H; LEE K W

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20020062313 A1 20020523 US 200140192 A 20011026 200255 B
KR 2002032803 A 20020504 KR 200063492 A 20001027 200271

Priority Applications (No Type Date): KR 200063492 A 20001027

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020062313 A1 8 G06F-007/00 KR 2002032803 A G06F-017/00 Abstract (Basic): US 20020062313 A1

NOVELTY - A header (10) contains basic information about a file and the information for application service. A data object (20) synchronizes multimedia data with temporal information. A key index object (30) stores an offset and temporal information of a video block having a key frame in video blocks, based on the time axis for random access and reproduction.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the

following:

(1) Data storing apparatus; and

(2) Streaming service provision method

USE - For providing streaming service for Internet broadcast Video On Demand (VOD), live-casting such as Active **Streaming** Format (ASF), Real Media (RM), etc.

ADVANTAGE - The random access and reproduction can be performed by using the key index information with various reproduction functions such as fast play, reverse play and random reproduction, etc. The data are transmitted quickly by reducing waste of bandwidths in the network.

DESCRIPTION OF DRAWING(S) - The figure shows an exemplary view illustrating a **file structure** for the streaming service.

Header (10) Data object (20)

Key index object (30)

pp; 8 DwgNo 1/3

Title Terms: STREAM; SERVICE; APPARATUS; BROADCAST; KEY; INDEX; OBJECT; STORAGE; OFFSET; TEMPORAL; INFORMATION; VIDEO; BLOCK; KEY; FRAME; VIDEO; BLOCK; BASED; TIME; AXIS; RANDOM; ACCESS; REPRODUCE

Derwent Class: T01; W01

International Patent Class (Main): G06F-007/00; G06F-017/00

(Item 8 from file: 350) 18/5/8 DIALOG(R) File 350: Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

Image available 014612622 WPI Acc No: 2002-433326/200246

XRPX Acc No: N02-340924

Video data-data control information synchronization apparatus in AV subsystem, receives data control information including display command in its action identifier field and data object field

Patent Assignee: INTEL CORP (ITLC)

Inventor: HUCKINS J L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Applicat No Kind Date Week Patent No Kind Date 200246 B US 6359656 B1 20020319 US 96772161 Α 19961220

Priority Applications (No Type Date): US 96772161 A 19961220

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6359656 13 HO4N-011/04 В1

Abstract (Basic): US 6359656 B1

NOVELTY - A data handler (146) receives data payloads containing data control information which includes a command in an action identifier field and a data object field referencing a file location in a memory. The handler executes command from the identifier field and provides display of the located file in a display (141) through the data rendering device (147).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the

following:

(a) Video data-data control information synchronization method;

(b) Audio data-data control information synchronization apparatus;

(c) Audio data-data control information synchronization method USE - For synchronizing data control information with video data in audio/video (A/V) subsystem for distributing audio/ video data time transfer protocol (RTP) and also for input device using **real** in video phone applications.

ADVANTAGE - Since data control information included in RTP packets synchronized along with the audio and video data, an improved presentation of data to an end-user is obtained. Since the RTP header includes a timestamp field, the data is forwarded to the control filter at the appropriate time relative to other data.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the audio/video subsystem.

Data handler (146)

Data rendering device (147)

pp; 13 DwgNo 7/7

Title Terms: VIDEO; DATA; DATA; CONTROL; INFORMATION; SYNCHRONISATION; APPARATUS; AV; SUBSYSTEM; RECEIVE; DATA; CONTROL; INFORMATION; DISPLAY; COMMAND; ACTION; IDENTIFY; FIELD; DATA; OBJECT; FIELD

Derwent Class: W01; W02

International Patent Class (Main): H04N-011/04

International Patent Class (Additional): H04J-003/06; H04L-007/06;

H04L-025/00; H04N-009/475; H04N-011/00

```
(Item 9 from file: 350)
18/5/9
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
            **Image available**
014552943
WPI Acc No: 2002-373646/200241
XRPX Acc No: N02-292056
  MPEG -2 stream packet transmission apparatus used in personal
 computer, extracts time stamp value from input packet header, for
  unifying source packets
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU ); MATSUSHITA DENKI
  SANGYO KK (MATU ); YAMADA M (YAMA-I); YOSHIDA J (YOSH-I)
Inventor: YAMADA I; YOSHIDA J; YAMADA M
Number of Countries: 030 Number of Patents: 005
Patent Family:
                                           Kind
                                                  Date
                                                           Week
Patent No
             Kind
                   Date
                            Applicat No
EP 1182812
              A2 20020227 EP 2001120088
                                           Α
                                                20010821 200241
US 20020075894 A1 20020620 US 2001934120
                                            Α
                                                 20010821
                                                           200244
                                           Α
                                                 20001227
JP 2002141917 A
                  20020517 JP 2000399304
                                                          200248
                                                 20010822
                                                          200258
KR 2002015663 A
                  20020228 KR 200150533
                                            Α
                                           Α
CN 1405671
              Α
                  20030326 CN 2001122293
                                                 20010822 200344
Priority Applications (No Type Date): JP 2000399304 A 20001227; JP
  2000251485 A 20000822
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
            A2 E 52 H04J-003/06
EP 1182812
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI TR
US 20020075894 A1
                       H04L-012/66
JP 2002141917 A
                   29 H04L-012/28
KR 2002015663 A
                      H04L-012/56
                      G06F-007/00
CN 1405671
             Α
Abstract (Basic): EP 1182812 A2
        NOVELTY - A judging unit (705) of PC (701) extracts time
    value from input packet header and unifies source packets that have
    same time stamp value in series, to output as single packet data. A
    CIP production unit (703) adds CIP data to the output packet data and
    transmits the data though an IEEE1394 bus (707) to a receiver (708).
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
        (a) Packet mode determination method; Source packet generating
    apparatus;
        (b) Packet mode determination program;
        (c) Source packet generation program;
        (d) Packet transmission method;
        (e) Source packet generation method;
        (f) Recorded medium storing packet mode determination program;
        (q) Recorded medium storing source packet generation program;
        (h) Source packet transmission program;
        (i) Recorded medium storing source packet ltransmission program
        USE - For transmitting MPEG -2 stream packets to receiver e.g.
    set top box, through IEEE1394 bus.
        ADVANTAGE - Determines the integration of the TS packets into
    isochronous packets and insertion of empty packet, based on the
    extracted time stamp value, thereby facilitates the transmission of
    the TS packet data read out from a hard disk through IEEE1394 bus based
       time
               stamp value.
        DESCRIPTION OF DRAWING(S) - The figure shows a transmission
    computer.
        PC (701)
        CIP production unit (703)
        Judging unit (705)
        IEEE1394 bus (707)
        Receiver (708)
        pp; 52 DwgNo 7/26
Title Terms: STREAM; PACKET; TRANSMISSION; APPARATUS; PERSON; COMPUTER;
```

EXTRACT; TIME; STAMP; VALUE; INPUT; PACKET; HEADER; UNIFIED; SOURCE; PACKET

Derwent Class: T01; W04

International Patent Class (Main): G06F-007/00; H04J-003/06; H04L-012/28;

H04L-012/56; H04L-012/66

International Patent Class (Additional): G06F-013/38 ; H04J-003/00;

H04L-029/08; H04N-007/24

18/5/10 (Item 10 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014518476

WPI Acc No: 2002-339179/200237

XRPX Acc No: N02-266747

A computer or communications networking protocol specifies service enhancements in packet header extensions including a control field with frame position, stream index , time stamp and other sub-fields

Patent Assignee: SHAREWAVE INC (SHAR-N)

Inventor: GUBBI R R

Number of Countries: 095 Number of Patents: 003

Patent Family:

Patent No Kind Date Applicat No Kind Date Week A2 20020124 WO 2001US15851 A 20010516 WO 200206986 200237 AU 200163194 20020130 AU 200163194 20010516 Α Α 200241 A2 20030416 EP 2001937456 20010516 EP 1302048 Α 200328 WO 2001US15851 A 20010516

Priority Applications (No Type Date): US 2000615573 A 20000713

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200206986 A2 E 94 G06F-017/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200163194 A G06F-017/00 Based on patent WO 200206986

EP 1302048 A2 E H04L-029/06 Based on patent WO 200206986
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): WO 200206986 A2

NOVELTY - The arrangement is specifically for wireless connected computer networks as proposed in the IEEE Standard 802.11, 1999 Edition standard for such networks and provides reliable multimedia data stream connections. The enhancements provided include; use of MM time frame; use of MM-data and MM-command frame sub-types; a new MM-control field with frame position, stream index, BSS session ID and time stamp; capability information to include multimedia and PC capability; additional elements for Beacon, probe response frames; forward error correction based on Reed Solomon coding; a selective retransmission to improve efficiency; stream management and dynamic bandwidth negotiation schemes; new management commands covering stream creation, dynamic bandwidth management, retransmission, operation of PC in an overlapped subnet environment, proxy services, a channel change mechanism to group management commands and so on; and an efficient mechanism to combine management commands into one frame.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

- (a) an interface between a wireless network component and the wireless medium
 - (b) a system including an interface
- (c) and a machine readable medium carrying program instructions for implementing a network protocol

USE - In wireless connected computer networks.

ADVANTAGE - Enhanced network facilities.

pp; 94 DwgNo 0/56

Title Terms: COMPUTER; COMMUNICATE; PROTOCOL; SPECIFIED; SERVICE; PACKET; HEADER; EXTEND; CONTROL; FIELD; FRAME; POSITION; STREAM; INDEX; TIME; STAMP; SUB; FIELD

Derwent Class: T01; W01

International Patent Class (Main): G06F-017/00; H04L-029/06

International Patent Class (Additional): H04L-012/58

18/5/11 (Item 11 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 014447254 **Image available** WPI Acc No: 2002-267957/200231 XRPX Acc No: N02-208424 Supporting subjective video at server via Internet method for interactive video communication e.g. multi-viewpoint video streaming , panoramic images using streaming protocol/file format to control downloads Patent Assignee: REALITY COMMERCE CORP (REAL-N); AO Y (AOYY-I) Inventor: AO Y Number of Countries: 096 Number of Patents: 004 Patent Family: Patent No Kind Date Applicat No Kind Date 20010323 200231 WO 200172041 A2 20010927 WO 2001IB680 Α 20010323 200231 AU 200148698 Α 20011003 AU 200148698 Α EP 2001921732 20010323 200310 EP 1269753 Α2 20030102 Α WO 2001IB680 Α 20010323 US 20030172131 A1 20030911 WO 2001IB680 Α 20010323 200367 US 2003239415 20030512 Priority Applications (No Type Date): US 2000191721 P 20000324; US 2003239415 A 20030512 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes WO 200172041 A2 E 56 H04N-007/173 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW AU 200148698 A H04N-007/173 Based on patent WO 200172041 H04N-007/173 Based on patent WO 200172041 EP 1269753 A2 E Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR US 20030172131 A1 H04N-007/173 Abstract (Basic): WO 200172041 A2 NOVELTY - A request relating to subjective video content is received, a view (geometric functions module) of the video content is accessed and an initial image data relating to an origin processing group of the view at will (VAW) file comprising file headers , code streams and offset table is provided. DETAILED DESCRIPTION - A group identifier is used to determine subsequent requests, the initial image data and the subsequent image data comprises coded image data not derived from a 3-D model. AN INDEPENDENT CLAIM is also included for an interactive video streaming system. USE - For interactive video communication e.g. multi-viewpoint video streaming , panoramic images etc. ADVANTAGE - The streaming server and the client together provide a system of bandwidth-smart controls (like wave-front, scheduler , caching etc) that allows the client to play the subjective video while the download is still taking place. DESCRIPTION OF DRAWING(S) - The figure illustrates the basic steps in subjective **video** streaming . View At Will (VAW) pp; 56 DwgNo 4/17 Title Terms: SUPPORT; SUBJECT; VIDEO; SERVE; METHOD; INTERACT; VIDEO; COMMUNICATE; MULTI; VIDEO; STREAM; PANORAMIC; IMAGE; STREAM; PROTOCOL; FILE; FORMAT; CONTROL Derwent Class: W02 International Patent Class (Main): H04N-007/173

International Patent Class (Additional): G06F-015/16

```
18/5/13
             (Item 13 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
            **Image available**
013229844
WPI Acc No: 2000-401718/200035
XRPX Acc No: N00-300858
 Compressed audio recording format for fast forward and backward audio
  searching uses pointers to backward and forward packets
Patent Assignee: PIONEER ELECTRIC CORP (PIOE ); PIONEER CORP (PIOE );
  PIONEER ELECTRONIC CORP (PIOE )
Inventor: SAWABE T; TOZAKI A; YAMAMOTO K
Number of Countries: 030 Number of Patents: 008
Patent Family:
                                                            Week
                                            Kind
                                                   Date
Patent No
              Kind
                     Date
                             Applicat No
                            EP 99309371
                                                 19991124
                                                           200035
                                            Α
                  20000531
EP 1005044
              Α2
                            JP 98334828
                                             Α
                                                 19981125
                                                           200036
                   20000616
JP 2000163884 A
                            CN 99115994
                                                 19991125
                                                           200054
                                            Α
                   20000712
CN 1259734
              Α
                   20000626 KR 9952406
                                                 19991124
                                                           200111
                                            Α
KR 2000035649 A
                                                 19991123
                                                           200237
                            TW 99120423
                                            Α
                   20010811
TW 449717
              Α
                            JP 98334828
                                            Α
                                                 19981125
                                                           200304
JP 3359581
              B2
                   20021224
                                                 19981125
                                                           200337
                             JP 98334828
                                             Α
JP 2003123395 A
                   20030425
                             JP 2002215954 A
                                                 19981125
              B1 20030610 US 99447416
                                                 19991123 200340
                                             Α
US 6577589
Priority Applications (No Type Date): JP 98334828 A 19981125; JP 2002215954
  A 19981125
Patent Details:
                                     Filing Notes
                         Main IPC
Patent No Kind Lan Pg
             A2 E 35 G11B-027/10
EP 1005044
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI
                    32 G11B-020/12
JP 2000163884 A
                       G11B-020/10
CN 1259734
            Α
KR 2000035649 A
                       G11B-020/12
                       G06F-007/06
TW 449717
            Α
                                     Previous Publ. patent JP 2000163884
                    30 G11B-020/12
JP 3359581
              В2
                                     Div ex application JP 98334828
                    23 G11B-020/12
JP 2003123395 A
                       G11B-007/00
US 6577589
              В1
Abstract (Basic): EP 1005044 A2
        NOVELTY - The recording system takes an audio
                                                         stream and
    compresses it into variable length unit for recording on DVD disks.
    Each unit (230) contains a header and a unit of data (243). The
    header (240) contains information such as the unit identity and
                        stamp . It also contains a backward pointer and a
    presentation time
    forward pointer that link to audio packs that are a defined time, e.g.
    one second, removed from the time of the current audio pack. Fast
    forward and backward scans use these pointers.
        USE - Recording structure for audio on DVD disks
        ADVANTAGE - Allows reliable fast searching in both directions
    despite the variable length nature of the compression output.
        DESCRIPTION OF DRAWING(S) - Audio storage structure
        Units of audio (230)
         Header including forward/backward pointers (240)
        Audio data (243)
        pp; 35 DwgNo 1/14
Title Terms: COMPRESS; AUDIO; RECORD; FORMAT; FAST; FORWARD; BACKWARD;
   AUDIO; SEARCH; POINT; BACKWARD; FORWARD; PACKET
 Derwent Class: P86; W04
 International Patent Class (Main): G06F-007/06; G11B-007/00; G11B-020/10;
   G11B-020/12; G11B-027/10
 International Patent Class (Additional): G06F-007/22; G10L-019/00;
   G11B-007/004; G11B-027/00; G11B-027/30
 File Segment: EPI; EngPI
```

(Item 15 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2004 Thomson Derwent. All rts. reserv. 011826264 **Image available** WPI Acc No: 1998-243174/199822 1998-243172 XRPX Acc No: N98-192497 Patent Assignee: TEXAS INSTR INC (TEXI) Number of Countries: 020 Number of Patents: 007 Patent Family: Patent No Date Kind Applicat No Kind A2 19980506 EP 97119121 EP 840520 Α KR 98042026 19980817 KR 9757565 Α Α US 9629923 Ρ US 6263396 В1 20010717 US 9630104 Ρ US 9630105 Р US 9630106 Ρ US 9630107 Ρ US 9630108 Ρ US 97962514 Α US 99235665 Α US 9629923 Ρ US 6310657 В1 20011030 US 9630104 Ρ US 9630105 Ρ US 9630106 Ρ US 9630107 Ρ US 9630108 P US 97962514 Α

Related WPI Acc No: 1998-242963; 1998-242964; 1998-243161; 1998-243166; Associative memory for identifying and routing digital packets - has television receiver extracting part of header of MPEG stream **and** using associative memory to identify data type and route data Inventor: CHAUVEL G; COTTLE T D; SPITS T T; BENBASSAT G; CHAE B O; CHIANG Y P; GIANI M; LACZKO F L; LASSERRE S; PALEY M E; SPITS T; WALKER K L Date Week 19971103 199822 19971101 199937 19961101 200142 19961101 19961101 19961101 19961101 19961101 19971031 19990122 19961101 200172 19961101 19961101 19961101 19961101 19961101 19971031 US 2000679000 20001004 Α 20020409 US 9629923 · P 19961101 200227 US 6369855 В1 US 9630104 Ρ 19961101 US 9630105 Р 19961101 US 9630106 Ρ 19961101 US 9630107 Ρ 19961101 US 9630108 Ρ 19961101 US 97962514 Α 19971031 US 6414726 20020702 US 9629923 Ρ 19961101 200248 US 97961958 Α 19971031 US 6452641 20020917 US 9629923 Ρ 19961101 200264 В1 US 9630104 Ρ 19961101 US 9630105 Ρ 19961101 US 9630106 Ρ 19961101 US 9630107 Ρ 19961101 US 9630108 Ρ 19961101 US 97962514 19971031 Α US 2000677658 20001004 Priority Applications (No Type Date): US 9629923 P 19961101; US 9630104 P 19961101; US 9630105 P 19961101; US 9630106 P 19961101; US 9630107 P 19961101; US 9630108 P 19961101; US 97962514 A 19971031; US 99235665 A 19990122; US 2000679000 A 20001004; US 97961958 A 19971031; US 2000677658 A 20001004 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes EP 840520 A2 E 9 HO4N-007/58 Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE KR 98042026 H04L-012/56 Provisional application US 9629923 US 6263396 G06F-013/24 Provisional application US 9630104

				Provisional application US 9630105 Provisional application US 9630106 Provisional application US 9630107 Provisional application US 9630108 Cont of application US 97962514 patent EP 840276 patent EP 840277 patent EP 840505
				patent EP 840512
				patent EP 840520
US	6310657	B1	H04N-005/50	Provisional application US 9629923
	•			Provisional application US 9630104
				Provisional application US 9630105
				Provisional application US 9630106
				Provisional application US 9630107
				Provisional application US 9630108
				Div ex application US 97962514
US	6369855	B1	H04N-007/26	Provisional application US 9629923
				Provisional application US 9630104
				Provisional application US 9630105
				Provisional application US 9630106
				Provisional application US 9630107
ше	6414726	В1	H04N-005/455	Provisional application US 9630108 Provisional application US 9629923
-	6452641	B1	H04N-005/50	Provisional application US 9629923
0.5	0432041	DI	HO4N-003/30	Provisional application US 9630104
				Provisional application US 9630105
			1	Provisional application US 9630106
			'	Provisional application US 9630107
				Provisional application US 9630108
				Div ex application US 97962514

Abstract (Basic): EP 840520 A

The television receiver accepts a serial input stream of MPEG (F1) data at 60 Mbps. This is processed by a decoder (30) which forwards the packets to a memory (36) with structures relating to the type of data, e.g. video, audio. The decoder also extracts the part of the header data of each packet which defines the type of data packet. This is passed to a content addressable memory (38) via an interface (40).

This memory holds the value of each packet type and circuits to concurrently compare an input value with all memory values. The output is an addressing signal (L2) which controls (34) where packets are held in the processor (32) memory.

ADVANTAGE - Simplifies receiver circuits by reducing need for FIFO's to delay stream while decoding header.

Dwg.4/6

Title Terms: ASSOCIATE; MEMORY; IDENTIFY; ROUTE; DIGITAL; PACKET; TELEVISION; RECEIVE; EXTRACT; PART; HEADER; STREAM; ASSOCIATE; MEMORY; IDENTIFY; DATA; TYPE; ROUTE; DATA

Derwent Class: P85; T01; W01; W02; W03; W04

International Patent Class (Main): G06F-013/24 ; H04L-012/56; H04N-005/455
; H04N-005/50; H04N-007/26; H04N-007/58

International Patent Class (Additional): G06F-013/26; H04N-005/00

File Segment: EPI; EngPI

18/5/16 (Item 16 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

011457536 **Image available**
WPI Acc No: 1997-435443/199740
Related WPI Acc No: 2002-535693

XRPX Acc No: N97-362176

Data file structure containing data especially for displaying animation - includes general information about animation and complete segment blocks of information representing single frames of animation

Patent Assignee: GEO INTERACTIVE MEDIA GROUP LTD (GEOI-N); CARMEL S (CARM-I); DABOOSH T (DABO-I); REIFMAN E (REIF-I); SHANI N (SHAN-I)

Inventor: CARMEL S; DABOOSH T; REIFMAN E; SHANI N
Number of Countries: 074 Number of Patents: 003

Patent Family:

Kind Date Week Patent No Kind Date Applicat No 19970206 199740 B WO 9731445 A2 19970828 WO 97IB573 Α 19970206 199802 AU 9726485 Α 19970910 AU 9726485 Α US 5841432 Α 19981124 US 96594890 Α 19960209 199903

Priority Applications (No Type Date): US 96594890 A 19960209

Cited Patents: No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9731445 A2 E 33 H04L-000/00

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9726485 A H04L-012/00 Based on patent WO 9731445

US 5841432 A G06T-001/00

Abstract (Basic): WO 9731445 A

The data file structure includes a block of data formed of general information for an entire animation file. Several segment information blocks make up the remainder of the data for displaying the animation. Each segment information block has two sections.

The first section includes general information data identifying the frame identification for the respective segment and the number of layers in the frame. It also includes data identifying the layer identification for the respective frame and the image, data defining the placement of the layer in the frame and ink data. The second section includes image identification data, background colour data, width and height of the image and data identifying the number of objects in the respective image, for each image in a frame. It also includes object type identification data, enclosing rectangle data, fill-in background and foreground data, pen background and foreground data, fill pattern data, line size data and ink data for each object.

USE/ADVANTAGE - For Internet. For computer network. Real time display. Conveying and operating on data over network to provide real time multimedia play, including display, particularly real time display of animation.

18/5/20 (Item 20 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

010771155 **Image available**
WPI Acc No: 1996-268109/199627

XRPX Acc No: N96-225432

elementary stream packetising unit for an MPEG-2 system e.g. for digital broadcast television - has 1st time stamp generators for video and audio data, and multiplexes 1st header with video from buffer, and 2nd header with audio data from 2nd buffer

Patent Assignee: ELECTRONICS & TELECOM RES INST (ELTE-N); KOREA ELECTRONICS & TELECOM RES (KOEL-N)

Inventor: AHN C T; HO Y S; KIM D N; AHN C; HO Y; KIM D Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No Applicat No Kind Date Kind Date A 19960528 US 95404603 US 5521927 19950315 199627 Α A 19960625 JP 9587214 B1 19980515 KR 9434004 B2 20000417 JP 9587214 19950412 199635 JP 8168052 Α 19941213 KR 137701 Α 200014 19950412 200024 JP 3034778 Α

Priority Applications (No Type Date): KR 9434004 A 19941213

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5521927 A 10 H04N-007/50

JP 3034778 B2 10 H04N-007/24 Previous Publ. patent JP 8168052

JP 8168052 A 8 H04N-007/24

KR 137701 B1 H04N-007/13

Abstract (Basic): US 5521927 A

The elementary stream packetising unit comprises a system time clock generator for sampling an external system clock signal at a resolution of a predetermined frequency. First and second time stamp generators latch a sampled value from the system time clock generator to generate a first presentation time stamp and a decoding time stamp for the process of video elementary stream data and a second presentation time stamp for the process of audio elementary stream data, respectively. First and second stream interface circuits input the video and audio elementary stream data and generate a group-of-picture detect signal and an audio frame synchronous word detection start signal, respectively. First and second buffers are provided for storing the video and audio elementary stream data and generating first and second header generation start signals, respectively.

A first multiplexer multiplexes a first header from a first header generator and the video elementary stream data to generate a packetised video elementary stream, and a second multiplexer multiplexes a second header from a second header generator and the audio elementary stream data to generate a packetised audio elementary stream.

ADVANTAGE - Efficient $\mbox{ synchronisation }$ of video and audio in decoder.

Dwg.1/5

Title Terms: ELEMENTARY; STREAM; UNIT; SYSTEM; DIGITAL; BROADCAST; TELEVISION; TIME; STAMP; GENERATOR; VIDEO; AUDIO; DATA; MULTIPLEX; HEADER; VIDEO; BUFFER; HEADER; AUDIO; DATA; BUFFER

Derwent Class: T01; W02; W04

International Patent Class (Main): H04N-007/13; H04N-007/24; H04N-007/50

International Patent Class (Additional): H04L-012/56

```
Items
Set
                Description
      3377135
                STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC?
S1
              OR ON(N)FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR -
             CAST) OR MBONE? OR M()BONE
                MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING() PICTUR? OR MPG OR
S2
             MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL() (AUDIO? OR VIDEO?)
             OR ASF OR REAL() MEDIA
                HEADER? OR FILE() (STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S3
        13586
                DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA)()TYPE?
S4
        21226
                SYNC OR SYNCS OR SYNCHRONI?
S5
       169312
                DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S6
      1107684
                (BLOCK? ? OR OFFSET OR OFF() SET OR CLIP? ? OR FILE? OR AUD-
S7
         4054
             IO) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?)
              CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET-
                TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
       896011
S8
        25039
S9
                S1(2N)S2
S10
          154
                S9 AND S3
                S10 AND S5
S11
           23
                S11 AND (S4 OR S6 OR S7 OR S8)
S12
           11
                S10 AND (S4 OR S6 OR S7 OR S8)
           30
S13
           42
                S11 OR S13
S14
           23
                RD (unique items)
S15
           12
                S15 NOT PY>20.00
S16
                S16 NOT PD>20001024
S17
           12
File
       8:Ei Compendex(R) 1970-2004/Aug W4
         (c) 2004 Elsevier Eng. Info. Inc.
      35:Dissertation Abs Online 1861-2004/Jul
         (c) 2004 ProQuest Info&Learning
File 202: Info. Sci. & Tech. Abs. 1966-2004/Jul 12
         (c) 2004 EBSCO Publishing
      65:Inside Conferences 1993-2004/Aug W5
         (c) 2004 BLDSC all rts. reserv.
       2:INSPEC 1969-2004/Aug W4
File
         (c) 2004 Institution of Electrical Engineers
     94:JICST-EPlus 1985-2004/Aug W1
         (c) 2004 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 01
         (c) 2004 The Gale Group
File 233: Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
       6:NTIS 1964-2004/Aug W4
File
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2004/Aug W4
         (c) 2004 INIST/CNRS
      34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5
File
         (c) 2004 Inst for Sci Info
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul
```

(c) 2004 The HW Wilson Co.

```
Items
Set
                Description
                STREAMING OR STREAM OR REALTIME? OR REAL()TIME? OR DYNAMIC?
      3377135
S1
              OR ON(N) FLY OR MULTICAST? OR WEBCAST? OR WEB() (BROADCAST OR -
             CAST) OR MBONE? OR M()BONE
                MULTIMEDIA? OR VIDEO OR AUDIO OR MOVING() PICTUR? OR MPG OR
S2
             MPEG? OR REALAUDIO? OR REALVIDEO? OR REAL()(AUDIO? OR VIDEO?)
             OR ASF OR REAL()MEDIA
                HEADER? OR FILE()(STRUCTURE? OR TEMPLAT? OR DESCRIPTOR?)
S3
                DATATYPE? OR MEDIATYPE? OR (DATA OR MEDIA)()TYPE?
S4
        21226
S5
                SYNC OR SYNCS OR SYNCHRONI?
       169312
                DESCRIPTOR? OR KEYWORD? OR KEYTERM? OR INDEX?
S6
      1107684
                (BLOCK? ? OR OFFSET OR OFF()SET OR CLIP? .? OR FILE? OR AUD-
S7
         4054
             IO) (N) (INFO OR INFORMATION? OR DESCRIPTION? OR IDENTIFY?)
              CLIPINFO? OR AUDIOINFO? OR VIDEOINFO? OR FILEINFO? OR OFFSET-
                TIMESTAMP? OR TIME()STAMP? OR TEMPORAL? OR SCHEDUL?
S8
       896011
S9
        25039
                S1(2N)S2
S10
          154
                S9 AND S3
S11
           23
                S10 AND S5
                S11 AND (S4 OR S6 OR S7 OR S8)
S12
           11
                S10 AND (S4 OR S6 OR S7 OR S8)
S13
           30
           42
                S11 OR S13
S14
           23
                RD (unique items)
S15
                S15 NOT PY>2000
           12
S16
          12
                S16 NOT PD>20001024
S17
File
       8:Ei Compendex(R) 1970-2004/Aug W4
         (c) 2004 Elsevier Eng. Info. Inc.
      35:Dissertation Abs Online 1861-2004/Jul
File
         (c) 2004 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12
         (c) 2004 EBSCO Publishing
     65:Inside Conferences 1993-2004/Aug W5
         (c) 2004 BLDSC all rts. reserv.
       2:INSPEC 1969-2004/Aug W4
File
         (c) 2004 Institution of Electrical Engineers
      94:JICST-EPlus 1985-2004/Aug W1
File
         (c) 2004 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Sep 01
         (c) 2004 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
       6:NTIS 1964-2004/Aug W4
File
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2004/Aug W4
         (c) 2004 INIST/CNRS
      34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W5
File
         (c) 2004 Inst for Sci Info
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul
```

(c) 2004 The HW Wilson Co.

17/5/10 (Item 1 from file: 94) DIALOG(R) File 94:JICST-EPlus (c) 2004 Japan Science and Tech Corp(JST). All rts. reserv.

JICST ACCESSION NUMBER: 00A0089214 FILE SEGMENT: JICST-E Multimedia Mobile Communication Systems. A Novel Error Control Algorithm for Reducing Transmission Delay in Real - Time Mobile Video Communication.

MATOBA N (1); KONDO Y (1); OHTSUKA H (1); TANAKA T (1) (1) Ntt Mobile Communication Network, Inc., Tokyo, Jpn

IEICE Trans Commun(Inst Electron Inf Commun Eng), 1999, VOL.E82-B, NO.12, PAGE.2021-2030, FIG.16, TBL.1, REF.18

ISSN NO: 0916-8516 JOURNAL NUMBER: L1369AAW

UNIVERSAL DECIMAL CLASSIFICATION: 621.397+654.197 621.396.73

COUNTRY OF PUBLICATION: Japan LANGUAGE: English

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper MEDIA TYPE: Printed Publication

ABSTRACT: This paper proposes a short delay, error-resilient video transmission scheme for mobile radio channels. Compressed video data are sensitive to channel error. Video coding schemes such as H.263 use variable length coding so channel error can cause synchronization failure in the decoder and fatally degrade the reconstructed video sequence by triggering intra- and inter-frame error propagation. ARQ prevents all forms of error propagation but significantly increases the transmission delay of the video frame. We propose a new error control scheme to reduces the delay incurred by ARQ; the receiving buffer can transmits the video frame data to the video decoder even if not all ARQ frames containing the video frame are received. The encoder transmits additional information, the Macro Block (MB) size, in the video frame header . Upon receiving this information, the receiving buffer can determine MB length which allows MB de- synchronization to be prevented. For example, if an ARQ frame is lost, the decoder determines the position of the missing MB and replace this MB with the equivalent block in the previous video frame; this prevents intra-frame error propagation. When all ARQ frames are received and decoded correctly, the video frame in the reference video memory is replaced with the correctly decoded one. Simulation results show that the proposed scheme can minimize the delay and the reduction in frame rate caused by retransmission control without intra- and inter-error propagation. (author abst.)

DESCRIPTORS: mobile communication; picture communication; error control; request repeat; lazy evaluation; fading(communication); image quality; coder; decoder; computer simulation

BROADER DESCRIPTORS: telecommunication; control; communication operation; operation (processing); performance evaluation; evaluation; communication disturbance; disorder/trouble/obstacle; image characteristic; characteristic; signal converter; electric converter; converter; computer application; utilization; simulation CLASSIFICATION CODE(S): ND12031N; ND08030H